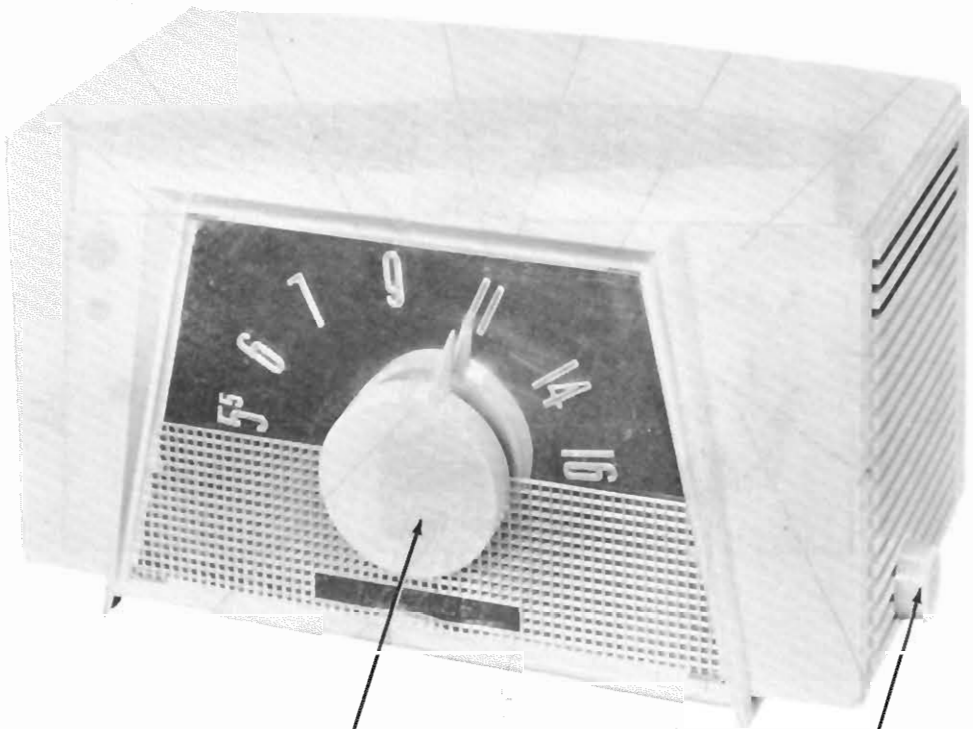


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CAVALIER  
MODEL 5B1

CAVALIER  
MODEL 5B1



TUNING  
CONTROL

VOLUME  
CONTROL  
ON-OFF  
SWITCH

CAVALIER  
MODEL 5B1

TRADE NAME	Cavalier Model 5B1					
MANUFACTURER	Hinners (Jalapek Radio Corp., 2514 Broadway, Long Island City 6, N. Y.)					
TYPE SET	AC-DC Operated AM Superheterodyne Receiver					
TUBES (Five)	Types 12BE6 Conv., 12BA6 IF Amp., 12AT6 Det.-AVC-AF Amp., 50C5 Audio Output, 35W4 Rectifier					
POWER SUPPLY	110-140 Volts AC-DC					
TUNING RANGE	BROADCAST 535-1620KC					
RATING .2 Amp. @ 117 VAC						
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
Use isolation transformer, if available. If not, connect a .1MFD capacitor in series with low side of signal generator and B-. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1MFD	High side to pin 7 (grid) of 12BE6 (V1). Low side to B-.	455KC (400% Mod)	Tuning gang fully open	Across voice coil	A1, A2, A3, A4	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFD to reduce hum modulation.
	Loop	1620Kc	"	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	"	1400KC	"	"	A6	"

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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DATE 5-54

SET 238

FOLDER 6

TUBES (SYLVANIA, GENERAL ELECTRIC, WESTINGHOUSE)

ITEM No.	USE	REPLACEMENT DATA			RETNA BASE TYPE	NOTES
		CAVALIER PART No.	STANDARD REPLACEMENT			
V1	Converter	12BE6	12BE6		7CH	
V2	IF Amplifier	12BA6	12BA6		7BK	
V3	Det-AVC-AF Amp.	12AT6	12AT6		7BT	
V4	Audio Output	50C5	50C5		7CV	
V5	Rectifier	35W4	35W4		5BQ	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	VOLT	REPLACEMENT DATA						NOTES
			CAVALIER PART No.	AEROVOX PART No.	CENTRALAB PART No.	CONRAD COBLENZ PART No.	ERIE PART No.	MALLORY PART No.	
C1A	70	150		PRS 50/50-30-20	DF-503	BERD6415		3N336	TVA-2460
C2	1.05	150		P288-05	CUB235			PT415	2TM-S5
C3	100022	300		1468-0001	SW571			MC235	1FM-S1
C4	330	400		7688-0022	D8-222	CUBHD22		PT6222	6TM-D22
C5	10000	300		31330-01	D8-331	SW5733		UC-5333	9GA-T33
C6	200000	600		34FD-01	DD-103	K082		DC-511	5HK-S1
C7	0.03	600		34FD-02	DF-203	K085		PT612	5HK-S2
C8	0.05	200		P288-03	CUB683			PT1033	6TM-S3
C9	1.05	200		P288-05	CUB255			PT115	2TM-S5

CONTROLS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA				INSTALLATION NOTES
			CAVALIER PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	500K	$\frac{1}{2}$	150-106	Q13-133	AG-60-Z	RSK-60-S	Volume Attach to R1A
B	500K		Not Req.	KSS-3	SWB	Not Req.	US-26
C	Switch		Not Req.	76-1			

RESISTORS

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA			NOTES
			CAVALIER PART No.	IRC PART No.	ITEM No.	
R2	22K $\Omega$			BTS-22K	R6	
R3	47K $\Omega$			BTS-47K	R7	BTS-40K
R4	2.2Meg			BTS-2.2Meg	R8	BTS-300K
R5	10 Meg			BTS-10 Meg	R9	BTA-2200

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA						NOTES
		CAVALIER PART No.	Stancor PART No.	Marit PART No.	Triod PART No.	Haldorson PART No.	Theodorsen PART No.	
T1	2.4K $\Omega$ 3.4 $\Omega$		A-3332 ①	A-3025 ①	S-IX ①	Z1101 ①	TS-24550 ①	① Bend mounting tabs down, file out slots, mount on original mounting bracket.

SPEAKER

ITEM No.	RATINGS SIZE	FIELD	V. C. IMP.	REPLACEMENT DATA				NOTES
				CAVALIER PART No.	JENSEN PART No.	QUAM PART No.		
SP1	4"	PM	3.4 $\Omega$		SP-113 Mod. PM-X	4A0T		

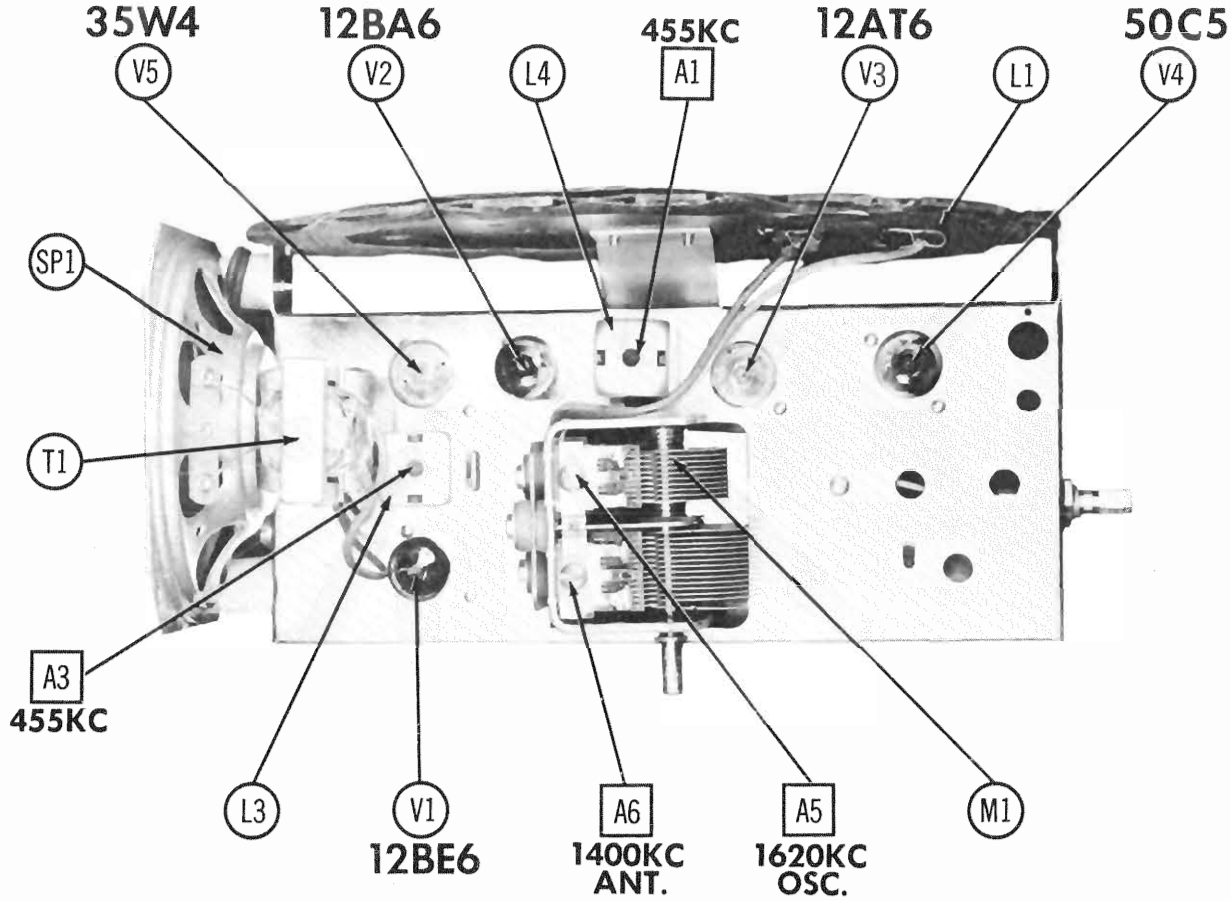
COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA				NOTES
		PRI.	SEC.	CAVALIER PART No.	MESSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Loop Ant.	1.1 $\Omega$						
L2	Osc. Coil	5 $\Omega$	5.5 $\Omega$		14-1073		69 Osc.	
L3	Input IF	18 $\Omega$	18 $\Omega$		130-102	BC-352	12-C1	
L4	Output IF	18 $\Omega$	18 $\Omega$		16-6758	BC-353	12-C2	

MISCELLANEOUS

ITEM No.	PART NAME	CAVALIER PART No.	NOTES
M1	Tuning cap	160-104	2 section (34-457MMF 37-200MMF)

CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW

